

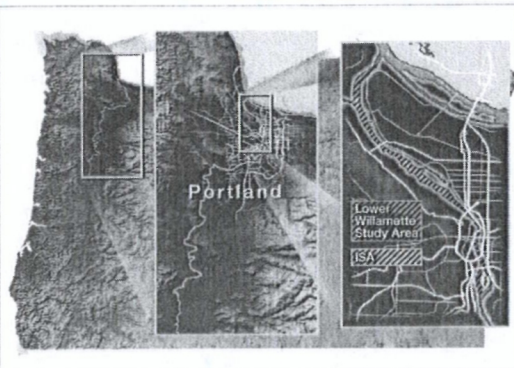
Portland Harbor 101

Citizens Advisory Group
April 9, 2003



Portland Harbor Outline

- Background/Brief Overview
- Superfund Process
- Time and Money
- The Work Plan
- The Field Sampling Plan
- How the CAG can help

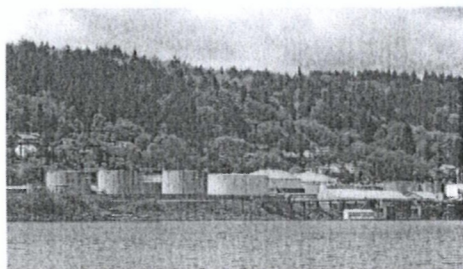


Background about the site

- The Willamette River from Swan Island to the southern tip of Sauvie Island
- Heavily industrialized for past 100 years with:
 - Ship repair and maintenance
 - Pesticide manufacturing
 - Wood treating
 - Bulk petroleum storage



Portland Harbor was added to the National Priorities List and became a Superfund Site in December 2002



Portland Harbor was not a new problem

Upland sites such as Gould and McCormick and Baxter were previously listed as Superfund Sites.

DEQ has cleanup agreements with 50+ other sites.



USEPA SF



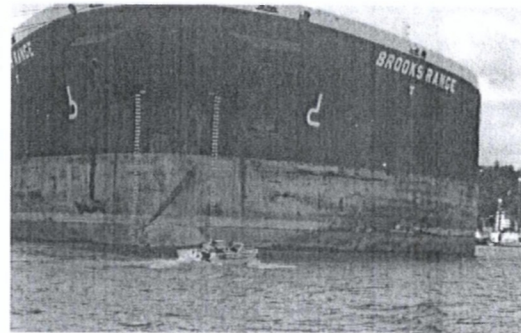
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Contaminants of Concern

- Metals
- Pesticides
- PAH's
- Semi-volatile organics
- PCB's
- Herbicides
- Dioxins, Furans



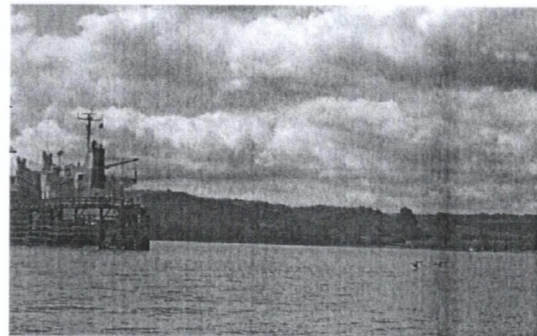
Recreational and commercial boats both use the Willamette River.



Homeless people camp along the shore, eating fish and using the river for bathing and drinking.

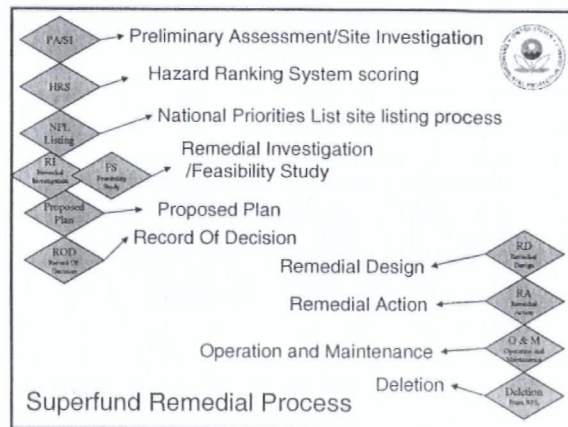


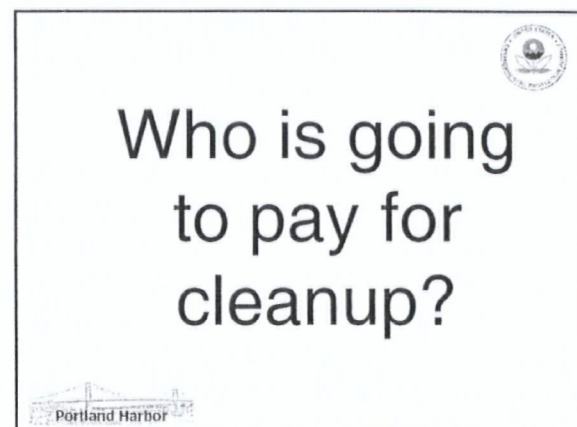
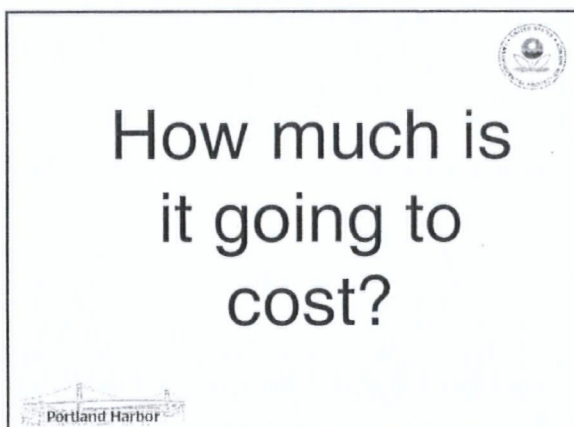
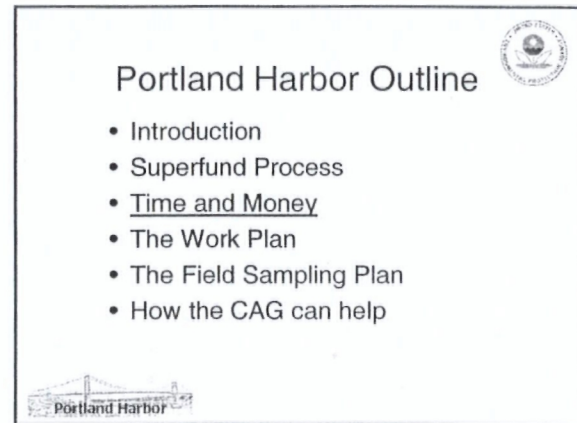
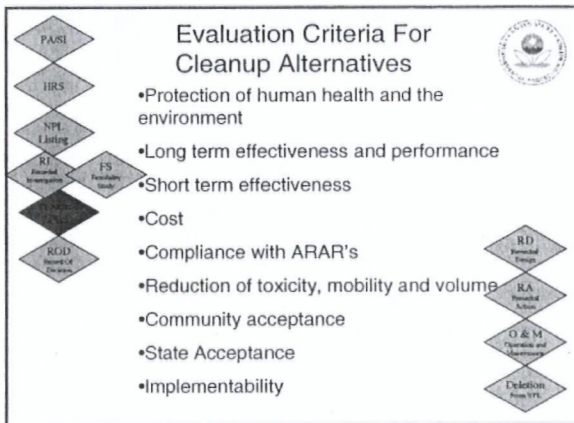
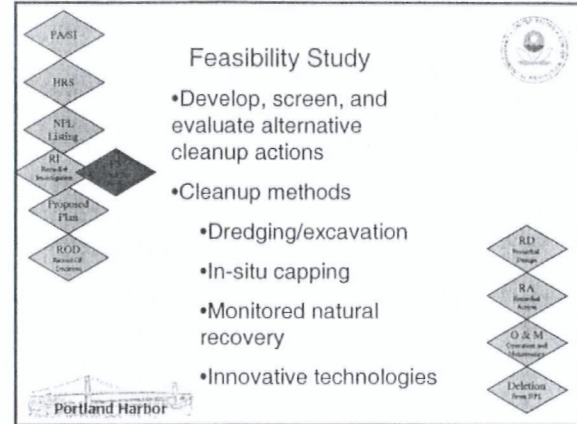
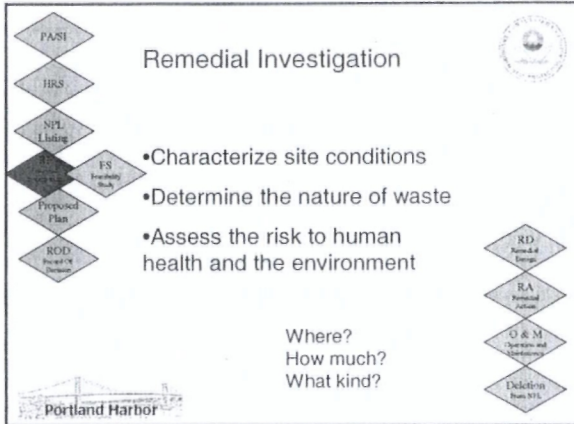
Waterfowl and wildlife live in Portland Harbor and eat fish and plants from the Willamette River.



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Who Pays For Cleanup?

- The law says EPA can make those responsible for contamination pay for cleanup
- Consent Agreements with EPA to do investigations
- Consent Decrees with EPA to do cleanup
- Nationwide, 70% of all cleanup is paid by responsible parties



Who Pays For Cleanup?

- At the time Portland Harbor was listed, EPA sent a general notice letter to 69 current industrial property owners informing them of potential liability.
- The Lower Willamette Group has come forward to perform the Remedial Investigation and Feasibility Study (RI/FS) for Portland Harbor



Who Pays for Cleanup?

- EPA will do an exhaustive search for potentially responsible parties while the RI/FS.
- There will eventually be hundreds or possibly thousands of parties identified who bear liability for cleanup.
- "Orphan" share may be paid through mechanisms available to EPA



How long is it going to take?



Superfund Remedial Process



Road Map Summary

Date	FALL 2002	SPRING 2004	FALL 2005	FALL 2006
Milestones	Completed Round 1 RI/FS & Round 1 Sampling	Draft Baseline Risk Assessment & Remedial Investigation Report to EPA	Draft Feasibility Study Report to EPA	EPA/USEPA Proposed RI Decision
Activities	<ul style="list-style-type: none"> RI/FS Round 1 Sampling Round 2 Sampling Round 3 Sampling 	<ul style="list-style-type: none"> RI/FS Round 1 Sampling Round 2 Sampling Round 3 Sampling 	<ul style="list-style-type: none"> Round 1 Sampling Round 2 Sampling Round 3 Sampling 	<ul style="list-style-type: none"> RI/FS Round 1 Sampling Round 2 Sampling Round 3 Sampling
Accomplishments	<ul style="list-style-type: none"> Final RI/FS Final Round 1 Sampling Final Round 2 Sampling Final Round 3 Sampling 	<ul style="list-style-type: none"> Final Baseline Risk Assessment Final Remedial Investigation Report Final Feasibility Study Report 	<ul style="list-style-type: none"> Final Feasibility Study Report Final RI/FS Final Round 1 Sampling Final Round 2 Sampling Final Round 3 Sampling 	<ul style="list-style-type: none"> Final RI/FS Final Round 1 Sampling Final Round 2 Sampling Final Round 3 Sampling
Public Involvement	<ul style="list-style-type: none"> Public Involvement Public Involvement Public Involvement 	<ul style="list-style-type: none"> Public Involvement Public Involvement Public Involvement 	<ul style="list-style-type: none"> Public Involvement Public Involvement Public Involvement 	<ul style="list-style-type: none"> Public Involvement Public Involvement Public Involvement

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Work Plan

- Presents the overall plans for completing the remedial investigation and feasibility study
- Gives general direction for tasks needing completion
- Says what will be done, but does not always specify how some tasks will be done



Work Plan

- Prepared by Lower Willamette Group
- Presented to EPA on March 31, 2003
- Under review by EPA, DEQ, other federal, state and tribal trustees, the TAG and the CAG.
- **EPA will provide response to the Lower Willamette Group by June 1, 2003.**



How does the Round 1 Work Plan fit in?

The Round 1 Work Plan was prepared so that the Lower Willamette Group could accomplish certain preliminary field work tasks during 2002, especially fish tissue sampling.

After each "round" of field sampling, data gaps are identified where more information is needed in order to make decisions.



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Field Sampling Plans

- Presents detailed plans for collecting information identified in the work plan – information needed to complete the remedial investigation and feasibility study
- Gives specific outline for tasks needing completion
- Says how things will be done



Field Sampling Plan

- Prepared by Lower Willamette Group
- Due to EPA on April 17, 2003
- Will be reviewed by EPA, DEQ, other federal, state and tribal trustees, the TAG and CAG.
- **EPA will provide response to the Lower Willamette Group so field work can commence for 2003.**



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Local knowledge of
the river and how the
community uses it



What the community considers
to be priorities for the site.



Are there factors EPA
hasn't considered that
should be part of the
decision making
process?



The Superfund cleanup is for
contamination and will not be
able to provide solutions for
every problem or need on the
river. (Even though they may
be important problems).



Does the process being used by technical experts to evaluate data and make decisions make sense?
(don't need to be a technical expert)

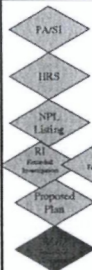


Can I agree, accept, or acknowledge that EPA used valid methods to arrive at their decision?



Evaluation Criteria For Cleanup Alternatives

- Protection of human health and the environment
- Long term effectiveness and performance
- Short term effectiveness
- Cost
- Compliance with ARAR's
- Reduction of toxicity, mobility and volume
- **Community acceptance**
- State Acceptance
- Implementability



Portland Harbor Superfund Cleanup End Results



A clean river contributes to the overall health of the community....

.... including fish, wildlife, recreation, the economy, and quality of life for everyone.

